

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant: Ramakrishnan et al.

Attorney Docket No: 68.0173

Serial No: 09/672,471

Art Unit:

Filed: 9/28/2000

Examiner:

For: Downhole Flow Meter

**Box PATENT APPLICATION**  
**Assistant Commissioner for Patents**  
**Washington, DC 20231**

**DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION**

☐ Declaration Submitted with Initial Filing

☒ Declaration Submitted after Initial Filing

**As a below named inventor, I hereby declare that:**

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

*Downhole Flow Meter*

**CERTIFICATE OF MAILING UNDER 37 C.F.R. 1.8 & 1.10**

I hereby certify that this document and its attachments are being sent on the date indicated below to the Assistant Commissioner for Patents, Washington, DC 20231 by:

☐ facsimile to number \_\_\_\_\_  
☒ first class mail.  
☐ Express Mail: Post Office to Addressee No. \_\_\_\_\_

Date

2/15/01

Joanne Hyland

*Joanne Hyland*

the specification of which

☐ is attached hereto.

☒ was filed on 9/28/2000 as United States Application Number or PCT International Application Number 09/672,471.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code § 119 (a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365 (a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Numbers	Country	Foreign Filing Date	Priority Not Claimed	Certified Copy Attached	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

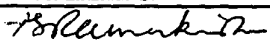
Application Number(s)	Filing Date
60/195,831	4/11/2000

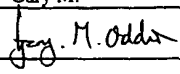
I hereby claim the benefit under Title 35, United States Code § 120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Numbers	PCT Parent Number	Parent Filing Date	Parent Patent Number

**Direct all correspondence to:**      **Patent Counsel**  
**Schlumberger Reservoir Completions**  
**Schlumberger Technology Corporation**  
**P.O. Box 1590**  
**Rosharon, Texas 77583**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor		<input checked="" type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle [if any])				Family Name or Surname			
Terizhandur S.				Ramakrishnan			
Inventor's Signature						Date	Jan 23, 2021
Citizenship	U.S.						
Residence Address	29 Oak Ridge Road						
Residence City	Bethel	State	CT	ZIP	06801-1154	Country	U.S.
Post Office Address	Same						
City		State		ZIP		Country	

Name of Additional Inventor		<input type="checkbox"/> A petition has been filed for this unsigned inventor.					
Given Name (first and middle (if any))				Family Name or Surname			
Gary M.				Oddie			
Inventor's Signature						Date	25/01/01
Citizenship	U.K.						
Residence Address	196 Manor Gardens, Cambridge Street						
Residence: City	St. Neots, Cambridgeshire	State		ZIP	PE19 1PU	Country	GB
Post Office Address	Same						
City		State		ZIP		Country	

Name: <b>Additional Inventor</b>		<input type="checkbox"/> A petition has been filed for this unsigned inventor.	
Given Name (first and middle (if any))		Family Name or Surname	
Sam		Smonian	
Inventor's Signature	<i>Sam Smonian</i>	Date	14 Feb 2001
Citizenship	G.B.		
Residence Address	37 Rue de Vouille, Apt. #C23		
Residence: City	Paris	State	
		ZIP	75015
Post Office Address	Same	Country	France
City		State	
		ZIP	
		Country	

## IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant: Ramakrishnan, et al.

Attorney Docket No: 68.0173DIV

Serial No:

Art Unit:

Filed:

Examiner:

For: Downhole Flow Meter

**Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

### POWER OF ATTORNEY

As the owner of the above-referenced patent application, I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Jeffrey E. Griffin, 36,534  
Bryan White, 45,211  
Tim W. Curington, 45,944  
John J. Ryberg, 31,134  
Wayne I. Kanak, 35,564  
Robert A. Van Someren, 36,038  
Michael G. Fletcher, 32,777  
C. Dale Quisenberry, 36,643

Brigitte L. Jeffery, 38,925  
John H. Bouchard, 29,286  
Victor Segura, 44,329  
Jeff Daly, 44,640  
Dan C. Hu, 40,025  
Fred G. Pruner, Jr., 40,779  
Kenneth D. Goodman, 30,460

**Direct all correspondence to:**

**Patent Counsel  
Schlumberger Reservoir Completions  
Schlumberger Technology Corporation  
P.O. Box 1590  
Rosharon, Texas 77583-1590  
281/285-5720**

  
\_\_\_\_\_  
Jeffrey E. Griffin  
Intellectual Property Counsel  
Schlumberger Technology Corporation

  
\_\_\_\_\_  
Date Signed

## STATEMENT UNDER 37 CFR 3.73(b)

Applicant: Schlumberger Technology Corporation

Application No.:

Docket No.: 68.0173DIV1

Entitled: Downhole Flow Meter

Schlumberger Technology Corporation, a corporation, states that it is the assignee of the entire right, title, and interest in the patent application identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel 011565, Frame 0437, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above to current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Copies of assignments or other documents in the chain of title are attached.

The undersigned is empowered to sign this statement on behalf of the assignee

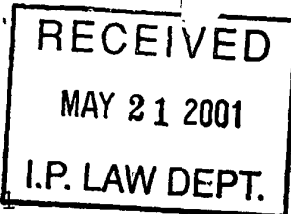
Date: August 20, 2003

Signature: \_\_\_\_\_

Jeffrey E. Griffin  
Intellectual Property Counsel



68.0173



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

MAY 15, 2001

PTAS  
SCHLUMBERGER TECHNOLOGY CORPORATION  
JAIME A CASTINO  
P.O. BOX 1590  
ROSHARON, TX 77583-1590



\*101634902A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/20/2001

REEL/FRAME: 011565/0437  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

RAMAKRISHNAN, TERIZHANDUR S.

DOC DATE: 01/23/2001

ASSIGNOR:

ODDIE, GARY M.

DOC DATE: 01/25/2001

ASSIGNOR:

SIMONIAN, SAM

DOC DATE: 02/12/2001

ASSIGNEE:

SCHLUMBERGER TECHNOLOGY  
CORPORATION  
14910 AIRLINE ROAD  
ROSHARON, TEXAS 77583-1590

SERIAL NUMBER: 09672471  
PATENT NUMBER:

FILING DATE: 09/28/2000  
ISSUE DATE:

MT/ef

95

011565/0437 PAGE 2

SHARON LATIMER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

03-13-2001



101634902

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. NAME OF CONVEYING PARTY(IES):

Ramakrishnan, Terizhandur S.  
Oddie, Gary M.  
Simonian, Sam

2-20-01

No additional names attached

2. NAME AND ADDRESS OF RECEIVING PARTY(IES):

Schlumberger Technology Corporation  
14910 Airline Road  
Rosharon, Texas 77583-1590

FEB 20 2001

No additional names & addresses attached

3. NATURE OF CONVEYANCE:

ASSIGNMENT EXECUTION DATE: 1/23/01, 1/25/01, 2/12/01

4. APPLICATION NUMBER(S) OR PATENT NUMBER(S):

If this document is being filed with a new application, the filing date of the application is: \_\_\_\_\_

A. PATENT APPLICATION NO.(s) 09/672,471

B. PATENT NO.(s)

NO ADDITIONAL NUMBERS ATTACHED

5. NAME AND ADDRESS FOR  
CORRESPONDENCE:

Schlumberger Technology Corporation  
Attn: Patent Counsel  
P.O. Box 1590  
Rosharon, Texas 77583-1590

6. TOTAL NUMBER OF APPLNS. &  
PATENTS INVOLVED 1

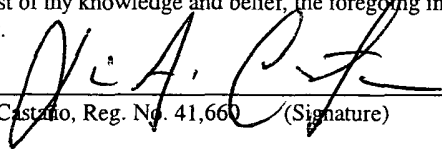
7. TOTAL FEE (37 CF4.3.41) \$40.00

CHARGE TO DEPOSIT ACCOUNT

8. DEPOSIT ACCOUNT NO. 50 0457  
(a duplicate of this page is attached)

9. STATEMENT AND SIGNATURE.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

  
Jaime A. Castano, Reg. No. 41,660 (Signature)

2-15-01

(Date)

Total number of pages including cover sheet, attachments and document: 6

03/09/2001 TDIAZ1 00000043 500457 09672471

01 FC:581

40.00 CH

## ASSIGNMENT

WHEREAS, We, Terizhandur S. Ramakrishnan, a citizen of the United States of America, residing at 29 Oak Ridge Road, Bethel, CT 06801-1154, Gary M. Oddie, a citizen of the United Kingdom, residing at 196 Manor Gardens, Cambridge Street, St. Neots, Cambridgeshire, PE19 1PU, Great Britian, and Sam Simonian, a citizen of the United Kingdom, residing at 37 Rue de Vouille, Apt # C23, Paris, 75015, France, hereinafter referred to as the "Inventors", have made inventions and improvements in: *Downhole Flow Meter* which are the subject of an application for Letters Patent of the United States of America, executed by us on the date(s) indicated below, (Docket No. 68.0173, Application No.: 09/672,471), hereinafter referred to as the "Invention(s)".

AND WHEREAS, SCHLUMBERGER TECHNOLOGY CORPORATION, hereinafter referred to as "said COMPANY", a corporation duly organized, incorporated and existing under the laws of the State of Texas, and having a place of business at 300 Schlumberger, Sugar Land, Texas 77478 is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to the Invention(s), and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefore.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we the Inventors, for good and valuable considerations, the receipt and sufficiency of which hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to the Invention(s), described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on the Invention(s) in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon the Invention(s).

TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on the Invention(s).

AND we do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND we do hereby covenant and warrant that we have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that we have not executed and will not execute any instruments in conflict herewith.

AND we, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that we, our executors, administrators, or other personal

representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute and deliver any and all other instruments in writing, and any and all further applications, papers, powers, affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more effectually to secure and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to the Invention(s), and any related application or applications, patents, rights, titles, benefits, privileges, and advantages hereby sold, assigned, confirmed, transferred and conveyed.

IN WITNESS WHEREOF, I, Terizhandur S. Ramakrishnan have hereunto set my hand and seal  
this January 23, 2001.

TS Ramakrishnan  
Terizhandur S. Ramakrishnan

CONNECTICUT  
STATE OF ~~CONNECTICATE~~ (no) §  
COUNTY OF FAIRFIELD §

BEFORE ME, this 23<sup>rd</sup> day of January, 2001 personally appeared Terizhandur S. Ramakrishnan, to me known to be the person who is described in and who executed the foregoing assignment instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Ruth A. Schriber  
Notary Public in and for the State of Connecticut

SEAL

My Commission Expires: MY COMMISSION EXPIRES  
JULY 31, 2005

IN WITNESS WHEREOF, I, Gary M. Oddie have hereunto set my hand and seal this

25<sup>th</sup> January, 2001.

Gary M. Oddie  
Gary M. Oddie

WITNESSED:

BE IT KNOWN, that Gary M. Oddie, is to me known to be the individual described in the foregoing assignment, that on this 25 day of JANUARY, 2001, I was personally present and did see him sign and execute the foregoing assignment and that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.

[Signature]  
Witness

ERIC DONZIER  
SCHLUMBERGER CAMBRIDGE RESEARCH  
HIGH CROSS, MADINGLEY ROAD.  
CAMBRIDGE, ENGLAND, CB3 0AL  
Post Office Address


69 HIGH STREET  
GIRTON  
CAMBRIDGE  
CB3 0QD.

[Signature]  
Witness

PAUL HAMMOND  
62 HIGH STREET,  
BOURN, CAMBRIDGE  
CB3 7TR, UK,  
Post Office Address

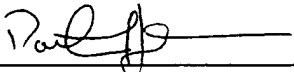
IN WITNESS WHEREOF, I, Sam Simonian have hereunto set my hand and seal this

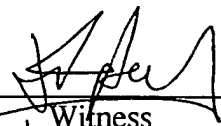
12<sup>th</sup> February, 2001.

  
\_\_\_\_\_  
Sam Simonian

WITNESSED:

BE IT KNOWN, that Sam Simonian, is to me known to be the individual described in the foregoing assignment, that on this 12 day of FEBRUARY, 2001, I was personally present and did see him sign and execute the foregoing assignment and that he did acknowledge to me that he executed the same as his free act and deed for the uses and purposes therein set forth.

  
\_\_\_\_\_  
Witness  
MARTIN HYDEN  
3 PASSAGE LAURIEU  
75007 PARIS  
FRANCE  
\_\_\_\_\_  
Post Office Address

  
\_\_\_\_\_  
Witness  
Helene RAYNAUD  
54, rue de la  
Bonne Aventure  
78000 Versailles  
FRANCE  
\_\_\_\_\_  
Post Office Address